

### In the Specification

Please replace paragraph 0038 with the following rewritten paragraph:

[0038] The effect on the refractive index is illustrated in Figs. 4 and 5A with the light rays 110 and 156 respectively. As is well known, the angle of incidence and refraction is defined by Snell's law, which is:

$$n \sin u = n' \sin u' \quad \text{eq. 5}$$

where  $n$  and  $u$  are the refractive index and angle inside the medium in which the chip is embedded, while  $n'$  and  $u'$  are the refractive index and angle of the medium in which the LED is used, such as air. As illustrated in Fig. 4, at the interface 112 of the lens 108, incident light with an angle  $u$  is emitted with a larger angle  $u'$ . However, as illustrated in Fig. 5A, without the lens 108 or encapsulant 106, light having an incident angle  $u$  at point 157, which is at the same point as interface 112 in Fig. 4, the refraction does not occur.